

Lysostaphin

Week 10

Summarized below are the experiments conducted this week in chronological order. Click on the experiment name to view it. To go back to this summary, click **Summary** in the footer.

Summary

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1 Colony Picking of transformed pSB1C3-T7-Lys from *E. coli* BL21 (DE3)

Responsible

Reskandi Rudjito

Protocols used

- Colony picking
- Glycerol stocks

Experimental Set Up

The experiment followed the standard procedures stated in the previously mentioned protocols.

Sample Calculation

No calculations were done.

Results and Conclusions

The picked colonies were grown in LB medium containing antibiotics. Three colonies were picked from two different plates, with six colonies in total. The colonies were stored as glycerol stocks and later induced for protein expression

Discussion and Troubleshooting

The colonies obtained were initially labeled as *E. coli* BL21 (DE3) cells containing pSB1C3-T7-Lys-LT. However we later learned that based on sequencing results, the linker tags (LT) had not been successfully assembled into the construct and therefor we were left with colonies containing pSB1C3-T7-Lys instead. These samples were then expressed and subjected to biofilm assays.

2 Expression of pSB1C3-T7-Lys *E. coli* BL21 (DE3)

Responsible

Reskandi Rudjito and Aman Mebrahtu

Protocols used

- Protein expression
- Sonication

Experimental Set Up

Six *E. coli* BL21 (DE3) pSB1C3-T7-Lys containing colonies were induced with 1 mM IPTG in 10 mL liquid culture.

Sample Calculation

No calculations were done.

Results and Conclusions

The induced protein samples were subjected to SDS Page analysis. However, we encountered technical difficulties while performing the SDS Page analysis, and therefore the result were not able to be shown.